

The Lighthouse of Houston, P.O. Box 130435, Houston, TX 77210-0435

Page 1 of 1

**MATERIAL SAFETY DATA SHEET****Product Name:** Disinfectant, Detergent, General Purpose (Pine Oil)**NSN 6840-00-687-7904** = Quart - Unit of issue = QT**NSN 6840-00-584-3129** = Gallon - Unit of issue = GL**NSN 6840-00-551-8346** = 55 Gallon - Unit of issue = DR**GSA Contract:** GS-10F-40474**Federal Specification:** O-D-1278-B**EPA Registration:** 34160-5**Other designations:****Chemical Family:** Pine Oil**Use:** Concentrated pine oil disinfectant and cleaner**I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING****Manufacturer:** The Lighthouse for the Blind of Houston**Address:** Houston, Texas 77019**Phone Number:** (713) 527-9561**Emergency Phone Number:** CHEM-TEL (800) 255-3924**II. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Components	CAS No	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Pine Oil (Terpene Alcohol)	9002-09-3	60%		100 ppm	
Isopropanol	67-63-0	3%		400 ppm	
Sodium Hydroxide	1310-73-2	less than 2%		2 mg/cu m	

**III. HAZARDS IDENTIFICATION****MAIN HAZARDS - Health Effects****Eyes:** Concentrate is strongly alkaline. May cause eye irritation and corneal injury. May cause mucous membrane irritation.**Skin:** Exposure during normal use may cause skin irritation and possible contact dermatitis.**Inhalation:** Prolonged inhalation above the TLV may cause nausea and vomiting. Persons allergic to pine trees may experience allergic symptoms.**Ingestion:** May result in nausea, vomiting, and diarrhea.**Note:** This product is essentially a combination of soap and pine oil which causes minimal ill effects when used as such. May be allergenic to some users. No ill effects have been noted from long term use of this product when used as directed. Usual caution should be exercised to prevent long term skin contact or any eye contact.**Prolonged contact may cause skin rash or contact dermatitis.****IV. FIRST AID MEASURES****Eyes:** Do not remove any contact lenses. Flush with water for 15 minutes followed by boric acid eyewash.**Contact physician immediately.****Skin:** Flush with water for 15 minutes. Contact physician if rash develops or skin irritation persists.**Ingestion:** If conscious, drink two to three glasses of milk or water. DO NOT induce vomiting. Obtain medical attention.**Inhalation:** If symptoms occur, remove person to fresh air where odor is not present. Discontinue use of product and contact physician immediately.**V. FIRE FIGHTING MEASURES****Extinguishing media:** Water fog, CO2, dry chemical extinguisher, foam**Unsuitable extinguishing media:****Protective Equipment for Firefighters:** Self-contained breathing apparatus and turn-out gear.**VI. ACCIDENTAL RELEASE MEASURES****Personal Precautions:** Wear chemical protective gloves, apron, goggles, and rubber boots as needed to avoid over-exposure**Environmental Precautions:** Do not discharge into lakes, streams, ponds or public waterways unless in accordance with a NPDES permit. For guidance contact the US EPA.**Spillage:** Mop up spills and dispose according to federal, state, and local guidelines**VII. HANDLING AND STORAGE****Handling:** COMBUSTIBLE! Keep from freezing.**Storage:** Keep away from sparks and open flame. Keep in original container only. Store separately from pesticides fertilizer and food.**VIII. EXPOSURE CONTROL/PERSONAL PROTECTION**

The Lighthouse of Houston, P.O. Box 130435, Houston, TX 77210-0435

Page 2 of 2

**Respiratory Protection:** Use chemical type respirator if needed to keep level below TLV.**Hand Protection:** If needed, rubber or vinyl gloves recommended to avoid skin irritation.**Eye protection:** Chemical splash type goggles to avoid eye contact.**Body Protection:** None needed during normal use, use rubber apron to avoid over exposure.**IX. PHYSICAL AND CHEMICAL PROPERTIES****Physical State:** Liquid. Characteristic pine type odor.**Color:** Straw yellow to dark amber**Boiling Range:** 365 deg F (185 deg C)**Melting Point:** NA**Flash Point (TOC) deg F(C):** 170 deg F (77 deg C)**Autoignition Temp F(C):** Unknown**Explosive Properties:** None**UEL:** Unknown**Evaporation Rate (Butyl Acetate):** greater than water**Partition Coefficient (Log Pow):** Unknown**Vapor Pressure kPa:** Unknown**Density (kg/m3):** Unknown**Flammability:** None**Oxidation Properties:** Not an oxidizer**Solubility in Water:** Infinitely**Vapor Density:** Greater than air**Percent Volatile:** 77% @212 deg F**OAR Values:****pH:** 10.5-11**X. STABILITY AND REACTIVITY****Stability:** Stable**Conditions to Avoid:** Keep from freezing.**Materials to Avoid:** Strong oxidizing agents**Hazardous Decomposition Products:** Oxides of carbon, hydrocarbons, degraded alcohols and terpene hydrocarbons.**XI. TOXICOLOGICAL INFORMATION****Acute Toxicity:** No**Irritancy-Skin:** Yes**Allergens:** Pine products**Skin Sensitization:** Yes dermatitis**Sub-acute/Subchronic Toxicity:** None known**Chronic Toxicity:** None known**Genotoxicity:** None known**Carcinogens:** None known**NTP:****IARC:****OSHA:****EC Classification (67/548/EEC):****California Prop 65 Agents:****LC-50:****LD-50:****XII. ECOLOGICAL INFORMATION****Possible Effects:****Behavior:****Environmental Fate:****XIII. WASTE DISPOSAL****Product Disposal:** Follow all applicable local, state, and federal guidelines. See section VI.**Container Disposal:** Do not reuse empty container. Wrap and discard in trash.**XIV. TRANSPORT INFORMATION****D.O.T. UN NO:** None**Load and Rail Transport (ADR/RID):** None**Sea Transport (IMO & IMDG):** None**Air Transport (ICAO & IATA):** None**XV. REGULATORY INFORMATION****Labeling Information:** Eye Irritant, Skin irritant, Combustible**S Phrases:****R Phrases:****EC Annex 1 Classification:****Ozone Depleting Chemicals:****EPA Registration:** 34160-5**TSCA:****WHMIS (Canada):****EPA Regulation 40 CFR Part 372 (SARA Section 313):** Yes**CHEMICAL****CAS NUMBER****UPPER BOUND CONCENTRATION****Sodium Hydroxide****1310-73-2****less than 2%****XVI. OTHER INFORMATION****Signature:** \_\_\_\_\_**Date:** January 11, 2001**Issued:** \_\_\_\_\_**Prepared by:** Ian Sangree, Director of Information Services**Disclaimer**

The information contained herein is accurate and reliable as of the date issued to the best of The Lighthouse of Houston's knowledge. The Lighthouse of Houston does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising from the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

DIS 60%